Panasonic

Operating Instruction

Colour Television
TX-14ST15M
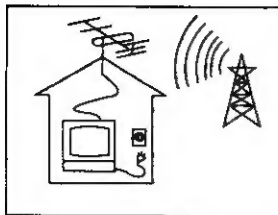## TC-14S15M
TC-14S15A

Please read the operating instructions completely before operating this set.
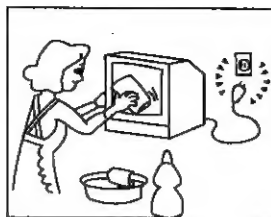
TQB4G0503 Ⓐ

Dear Panasonic customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new colour television.

Safety Instructions

The TV set can be operated on AC SINGLE 230V, 50Hz (TC-14S15M/TX-14ST15M) and AC SINGLE 240V, 50Hz. (TC-14S15A)

The cabinet and picture tube can be kept in good condition by simply wiping with a clean, soft cloth moistened with mild detergent and water. Do not use solutions containing benzol, petroleum or a chemical cloth. For safety, remove the plug from the wall outlet.
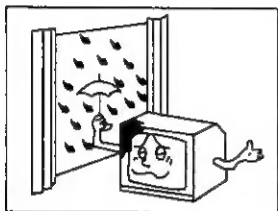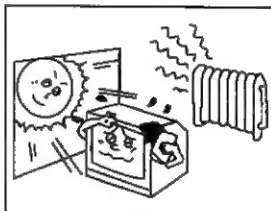
To prevent damage which may result in fire or electrical shock, do not expose the TV set to rain or excessive moisture.
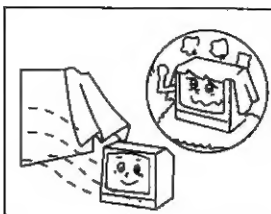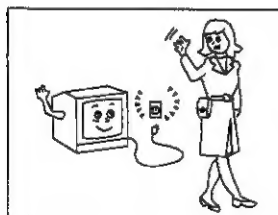
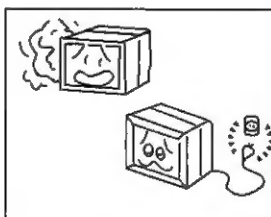Adequate ventilation is essential to prevent failure of electrical components.
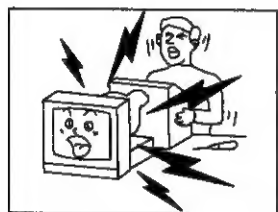
Do not remove the rear cover, as live parts are accessible when it is removed.

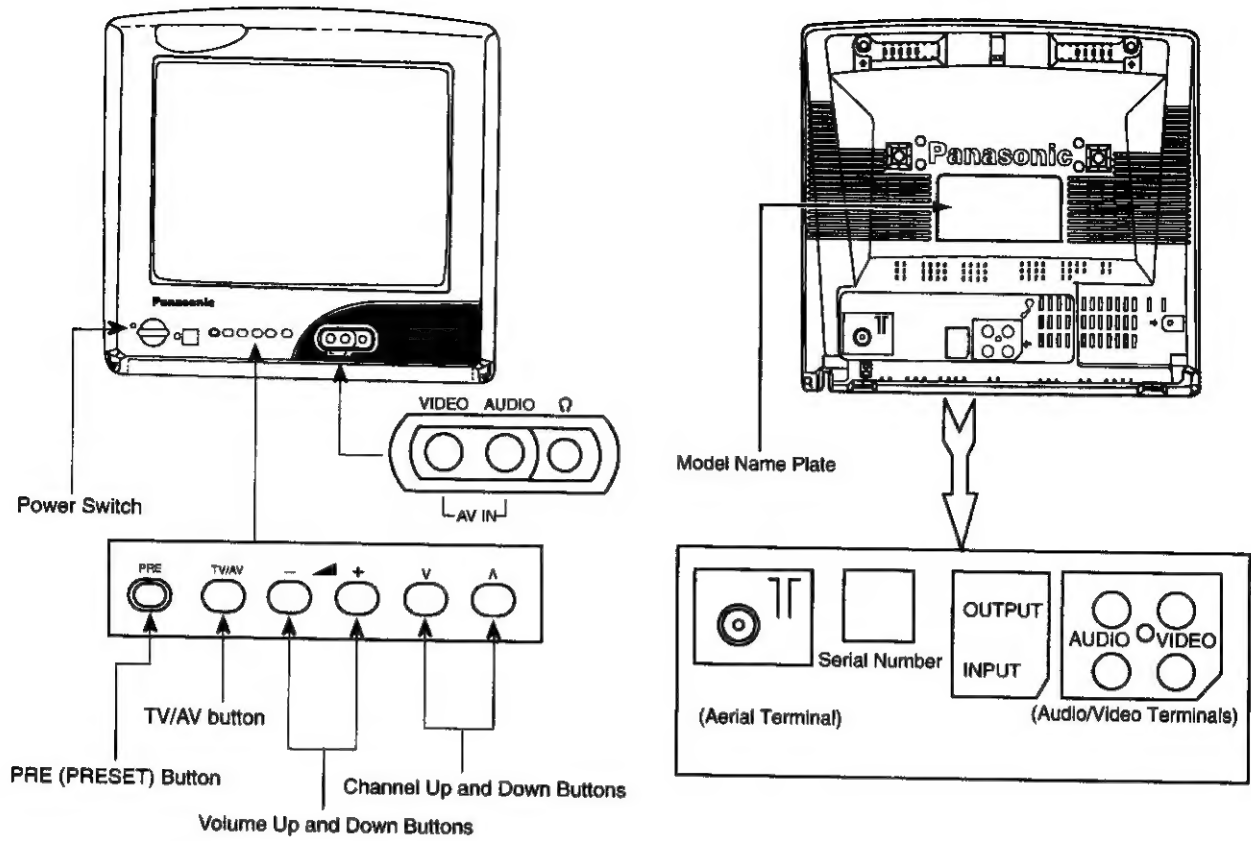Avoid exposing the TV set to direct sunlight and other source of heat.

Remove the plug from the wall outlet (Power point) when the TV set is not used for a prolonged period of time.
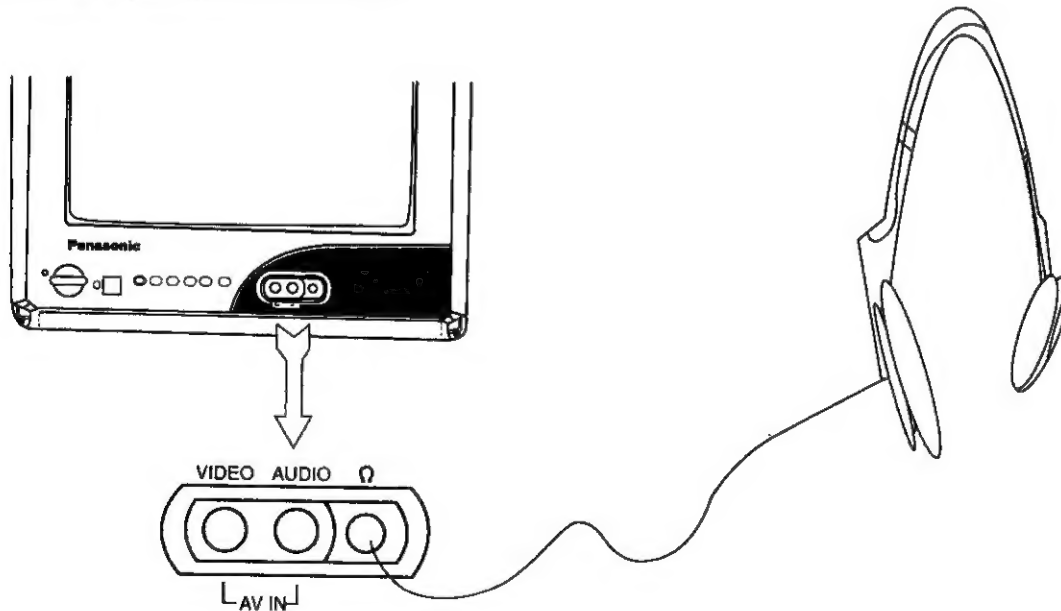
Do not use this set if abnormal operation occurs. EX: smoke, odd sounds or smells, turn the power switch off and disconnect the AC power if you notice any unusual operation.

1

VIDEO AUDIO Ω

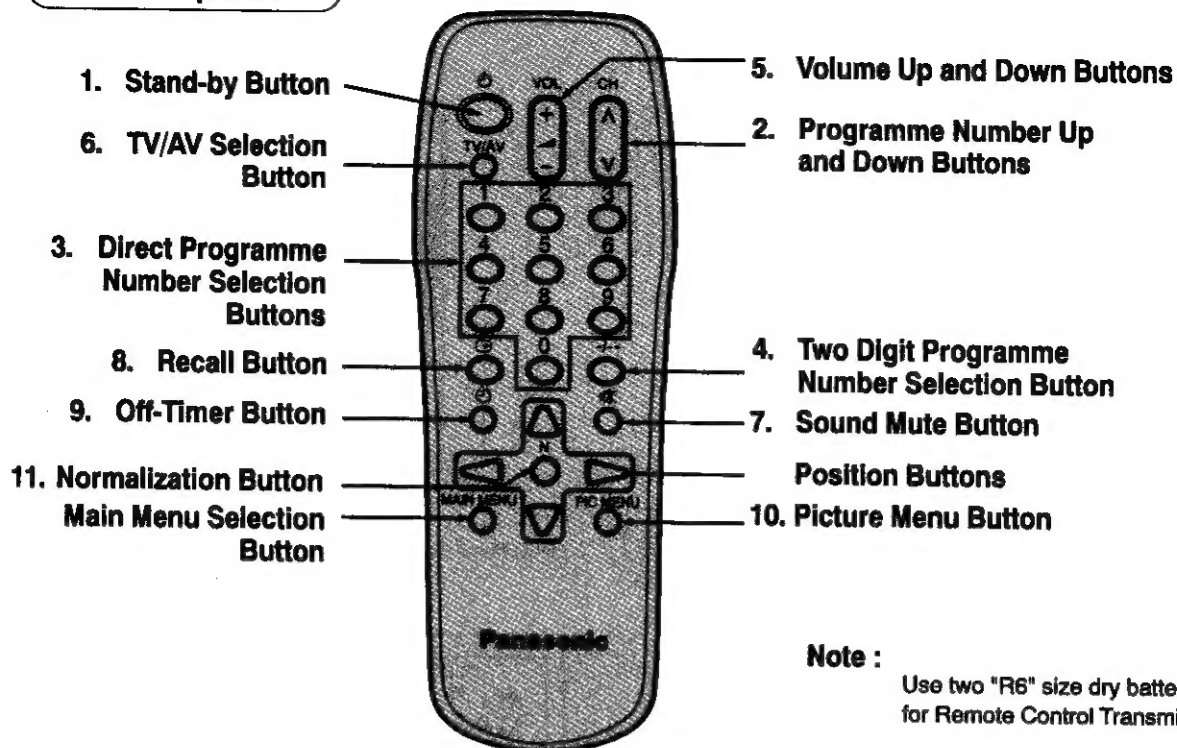└─AV IN─┘

Power Switch

Model Name Plate

PRE TV/AV — + V Λ

OUTPUT

INPUT

AUDIO VIDEO

Serial Number

TV/AV button

(Aerial Terminal)

(Audio/Video Terminals)

PRE (PRESET) Button

Channel Up and Down Buttons

Volume Up and Down Buttons

Location of Control (TV)

Plug the earphone jack as shown below:

Panasonic

VIDEO AUDIO Ω

└─AV IN─┘

General Operation

1. **Stand-by Button**

6. **TV/AV Selection Button**

3. **Direct Programme Number Selection Buttons**

8. **Recall Button**

9. **Off-Timer Button**

11. **Normalization Button Main Menu Selection Button**

5. **Volume Up and Down Buttons**

2. **Programme Number Up and Down Buttons**

4. **Two Digit Programme Number Selection Button**

7. **Sound Mute Button**

Position Buttons

10. **Picture Menu Button**

Note :
Use two "R6" size dry batteries for Remote Control Transmitter
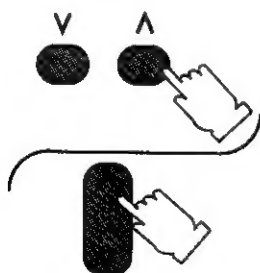

1.

To Switch Power on/off

The TV set must be switched on at the wall outlet and at the Main power switch.
Press this button to turn the TV set ON, from stand-by mode.
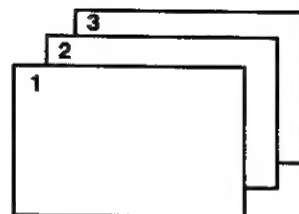Press it again to turn off.

Note :

When in the stand – by condition, it is possible to turn the TV set on by pushing the Direct Programme Number Selection button (0-9) or the Programme Number Up and Down button.

2.

Programme Number Selection

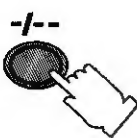Press the programme number Up " ∧ " or down " ∨ " Button to select the next higher or lower programme number.

3
2
1

3.

Direct Programme Number Selection

(0 - 9)

e. g. To select programme number "1", press the "1" button.

1

---

4. -/--
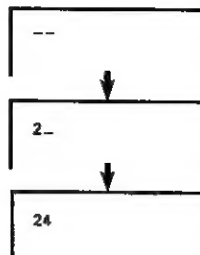
Two Digit Programme Number Selection

e.g. To select Programme Number "24".

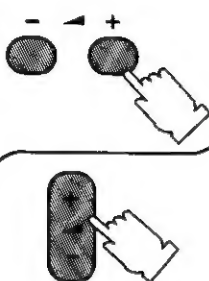Push the -/-- ⭕ button.

Push the 2 ⭕ button.

Push the 4 ⭕ button.

Setting range	0 ~ 99

You can select a two Digit Programme Number.
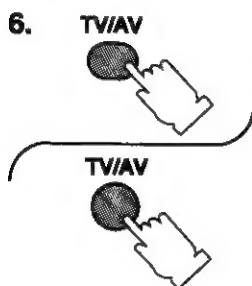
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5. – ◀ +

Volume Adjustment

Push the Volume Up or Down button to increase or decrease the sound volume level.
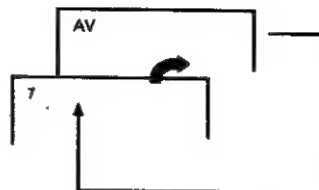
Note :

The on screen display will indicate both numerically and graphically the volume level. Numeric levels start at " 0 " for zero or no sound, and will increase up to 63 which is the maximum sound level.

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6. TV/AV

TV / AV Selection

Push the " TV/AV " button to select TV and AV input signal.

TV/AV

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7. ⊄

Sound Mute Button

Push the this button to mute the Sound completely.
Push the button once again to restore the previous sound level, and cancel the mute.
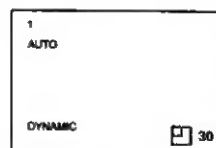
The " Mute " symbol will appear.
(Colour changes to red)
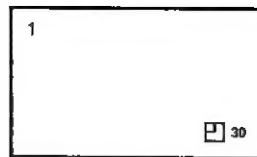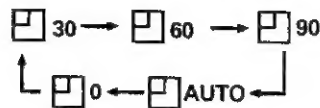
---

8. ⊕

Recall Button

Push the RECALL button to display the current system status. Press this button until display is cancelled.

4

9. Off Timer Button

The TV set may be preset to switch to stand-by after a fixed period.
By pressing "Off-Timer" button, you can select the preset time either 30, 60, or 90 minutes.

▯30 ⟶ ▯60 ⟶ ▯90
▯0 ⟵ ▯AUTO ⟵

▯ 30

When the off-timer reaches its last 3 minutes, it starts blinking before going to stand-by condition.

Note :
Setting Off-timer to AUTO mode.
If the set is not switched off, when the TV station ends broadcasting, it will automatically go to the stand-by condition after 5 minutes. This AUTO mode will not operate when the TV receiver is in AV mode.

How to cancel the OFF-timer setting:
1. Set the preset time condition to "0" mode by pressing the Off - timer button.
2. Turning the TV set off.

10. Picture Menu

PIC MENU

By pressing the PICTURE MENU button, you can sequentially select the Picture menus as shown below:

On-screen	Function
DYNAMIC	For watching in brighter environments. This menu selects a higher than normal level of brightness and contrast.
STANDARD	For watching in normal (evening) environments. This menu selects normal level of brightness and contrast.
SOFT	For watching in dark environments. This menu selects reduced level of brightness and contrast.

11. Normal (N) Button

N

This button can be used for setting the Colour, Brightness, Contrast, Sharpness, Tone and Colour Temp. When this button is pressed, all functions setting are reset to the factory preset level.

5

Flow Chart of Main Menu

When the " MAIN MENU " button is pushed at the main menu screen, the screen display will return to the normal viewing condition. When the " MAIN MENU " button is pushed at each MENU screen (Picture, Sound, Features, Language, Preset), the screen display will return to the Main Menu screen.

Push	MAIN MENU ○				
Select	◁ ▷				
Symbol Mark	📺	🔊	👆	🌡	⚙
On-Screen Indication	PICTURE	SOUND	FEATURES	LANGUAGE / ENGLISH / 中文 / РУССКИЙ / العربية	PRESET
Push	▽	▽	▽	▽	▽

On-Screen Indication (example):

PICTURE column:

Screen 1:
DYNAMIC
32 COLOUR
32 NTSC-TINT
32 BRIGHT
63 CONTRAST
32 SHARPNESS
STD COLOUR TEMP

△▽

Screen 2:
DYNAMIC
32 COLOUR
32 NTSC-TINT
32 BRIGHT
63 CONTRAST
32 SHARPNESS
STD COLOUR TEMP

△▽

Screen 3:
DYNAMIC
32 COLOUR
32 NTSC-TINT
32 BRIGHT
63 CONTRAST
32 SHARPNESS
STD COLOUR TEMP

△▽

Screen 4:
DYNAMIC
32 COLOUR
32 NTSC-TINT
32 BRIGHT
63 CONTRAST
32 SHARPNESS
STD COLOUR TEMP

△▽

Screen 5:
DYNAMIC
32 COLOUR
32 NTSC-TINT
32 BRIGHT
63 CONTRAST
32 SHARPNESS
STD COLOUR TEMP

△▽

Screen 6:
DYNAMIC
32 COLOUR
32 NTSC-TINT
32 BRIGHT
63 CONTRAST
32 SHARPNESS
STD COLOUR TEMP

SOUND column:

63 TONE

FEATURES column:

Screen 1:
BLUE BACK   ON
CH COLOUR SET STD
CHILD LOCK   OFF

△▽

Screen 2:
BLUE BACK   ON
CH COLOUR SET STD
CHILD LOCK   OFF

△▽

Screen 3:
BLUE BACK   ON
CH COLOUR SET STD
CHILD LOCK   OFF

Note :

The menu screen function of Colour, Ntsc-Tint, Sharpness, Std Colour Temp, Child Lock, Auto Search, Manual Search, Colour Sys and Skip are not applicable in teletext mode only.

LANGUAGE column:

Screen 1:
语言 ENGLISH
中文
РУССКИЙ
العربية

△▽

Screen 2:
ЯЗЫК
ENGLISH
中文
РУССКИЙ
العربية

△▽

Screen 3:
اللغة
ENGLISH
中文
РУССКИЙ
العربية

PRESET column:

Screen 1:
88
AUTO SEARCH
MANUAL SEARCH
COLOUR SYS AUTO
FINE TUNE
SKIP   OFF

△▽

Screen 2:
88
AUTO SEARCH
MANUAL SEARCH
COLOUR SYS AUTO
FINE TUNE
SKIP   OFF

△▽

Screen 3:
88
AUTO SEARCH
MANUAL SEARCH
COLOUR SYS AUTO
FINE TUNE
SKIP   OFF

△▽

Screen 4:
88
AUTO SEARCH
MANUAL SEARCH
COLOUR SYS AUTO
FINE TUNE
SKIP   OFF

△▽

Screen 5:
88
AUTO SEARCH
MANUAL SEARCH
COLOUR SYS AUTO
FINE TUNE
SKIP   OFF

Tuning Procedure

Automatic Search

		OR	
PRE TV/AV − ◀ + ∨ ∧			MAIN MENU
1,3 2			1,3
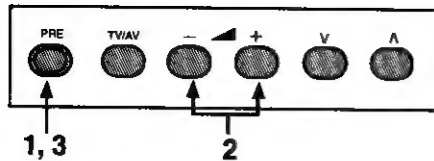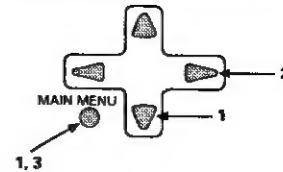
1. PRE.	Press the "PRE" (PRESET) button, setting the Automatic search mode.	1 AUTO SEARCH / MANUAL SEARCH / COLOUR SYS AUTO / FINE TUNE / SKIP OFF	Channel Number Automatic search condition.
△ ◀ ▷ MAIN MENU	Press the "MAIN MENU" and "Position" buttons, until "AUTO SEARCH" function is selected.		
2. − ◀ +	Press the Volume Up " + " button.	0 AUTO SEARCH VL ┼‐‐‐‐‐‐‐‐‐‐	Search start.
△ ◀ ▷ MAIN MENU ▽	Press the Position Right button.	0 AUTO SEARCH / MANUAL SEARCH / COLOUR SYS AUTO / FINE TUNE / SKIP OFF	The best tuning position is automatically memorized.
3. PRE.	Press the " PRE " (PRESET) button 5 times.		This returns the set to the normal viewing condition.
MAIN MENU	After all stations are tuned, press the "MAIN MENU" button twice.		

Helpful Hints

1. If a clear picture with correct colours cannot be obtained when a broadcast or AV signal is received, refer to the "Colour System Selection" operation on page 13.

2. After the Automatic Search operation is finished, press the Channel Number "Up" button to confirm the tuning condition for each Channel Number. If some Channel Numbers are unused, it is possible to skip such Channel Numbers. Please refer to the Channel Number Skip operation on page 11.

3. Repeated pressing of the "PRE." (PRESET) button changes the Preset Menu as follows :

```
  ┌──► AUTO SEARCH ──► MANUAL SEARCH ──► COLOUR SYS ──┐
  │       (Page 7)          (Page 8)         (Page 13)  │
  └──── TV MODE ◄──────── SKIP ◄──────── FINE TUNE ◄────┘
     (Normal viewing condition)  (Page 11)     (Page 9)
```
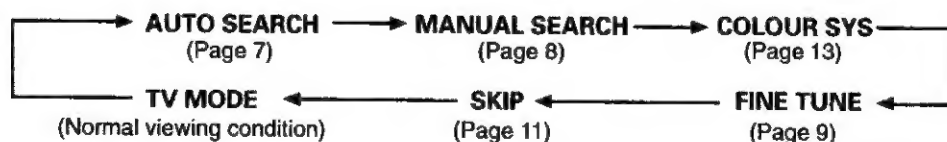
Manual Search

OR
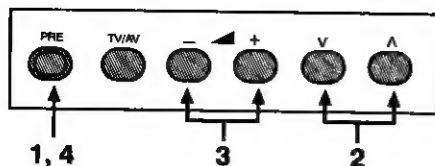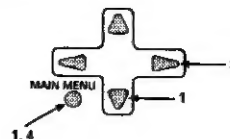
1.	PRE.	Press the "PRE" (PRESET) button twice, setting the Manual Search mode.	1 AUTO SEARCH MANUAL SEARCH COLOUR SYS AUTO FINE TUNE SKIP OFF	Channel Number Manual search condition.
		Press the "MAIN MENU" and "Position" buttons, until "MANUAL SEARCH" is selected.		
2.		Press either the Channel Up or Down button.	2 AUTO SEARCH MANUAL SEARCH COLOUR SYS AUTO FINE TUNE SKIP OFF	Select the desired Channel Number.
3.		Press the Volume Up " + " or Down " – " button. Volume " + " : Next higher Channel Volume " – " : Next lower Channel	2 MANUAL SEARCH VL –|– – – – – – – – –	Search Start.
		Press the Position Left or Right button. Position left : Next lower Channel. Position right : Next higher Channel.	2 AUTO SEARCH MANUAL SEARCH COLOUR SYS AUTO FINE TUNE SKIP OFF	The best tuning position is automatically memorized.
4.	PRE.	Press the "PRE" (PRESET) button 4 times.		This returns the set to the normal viewing condition.
	MAIN MENU	Press the "MAIN MENU" button twice.		
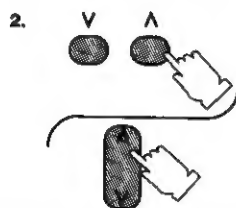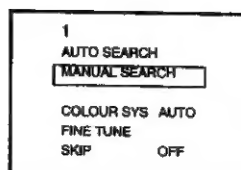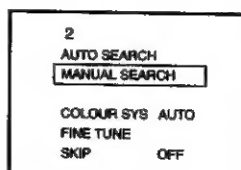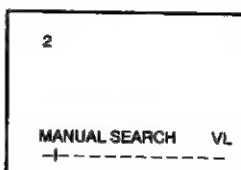
Helpful Hints

1. If a clear picture with correct colours cannot be obtained when a broadcast or AV signal is received, refer to the "Colour System Selection" operation on page 13.

2. After the Manual Search operation is finished, press the Channel Number "Up" button to confirm the tuning condition for each Channel Number. If some Channel Numbers are unused, it is possible to skip such Channel Numbers. Please refer to the Channel Number Skip operation on page 11.

Fine Tune

OR

2, 4   **3**   **1**
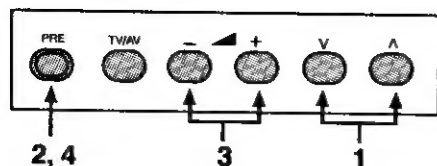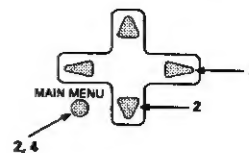
Under normal reception condition, this function is not used. However, in areas of poor reception or constant interference, a slight adjustment on the fine tuning can improve the picture and sound quality.
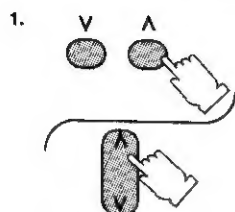
1.

Select the channel which you want to try to improve, using the Channel Up or Down buttons.
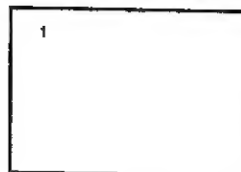
Select the desired Channel Number.

2.

PRE.

Press the " PRE." (PRESET) buttons 4 times, setting the Preset menu to "Fine Tune".

```
1
AUTO SEARCH
MANUAL SEARCH

COLOUR SYS  AUTO
FINE TUNE
SKIP        OFF
```

Fine Tune condition.

MAIN MENU

Press the "MAIN MENU" and "Position" buttons, until "FINE TUNE" is selected.

3.

─ ◄ +

Press the Volume Up " + " or Down " – " button until the picture is received.

```
1




FINE TUNE      VL
─┼─ ─ ─ ─ ─ ─ ─ ─
```

Fine Tune Start.

MAIN MENU
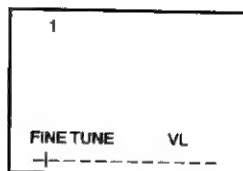
Press the Position Left or Right button until the picture is received.

```
■ 1
AUTO SEARCH
MANUAL SEARCH

COLOUR SYS  AUTO
FINE TUNE
SKIP        OFF
```
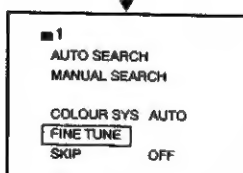
The AFC (Automatic Frequency Control) function is deactivated.
The " ■ " symbol appears to the left of the Channel Number.

4.

PRE.

Press the "PRE" (PRESET) button 2 times.

This returns the set to the normal viewing condition.

MAIN MENU

After all stations are tuned, press the "MAIN MENU" button twice.

```
■ 1
```

How to cancel the Fine Tuning

OR

2, 4   3   1   2, 4
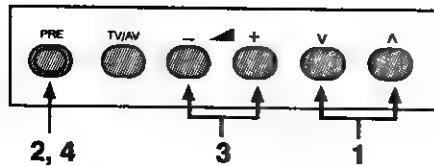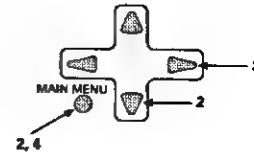
Cancelling previously adjusted (manually) fine tuning, means re – activating the AFC (Automatic Frequency Control) Function, also known as AFT (Automatic Fine Tuning). Re – activating the Automatic Fine Tuning means albaming the set to automatically tune optimum tuning position, for that Channel Number.
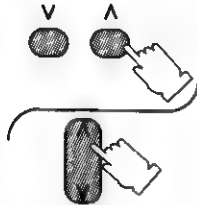
|			
1.		Select the "AFC OFF" Channel Number which you want to return to Automatic Frequency Control (Cancel the manual fine tuning).	"AFC OFF" Channel Numbers are indicated to you by the " ▪ " symbol to the left of the Channel Number.
2.		Press the " PRE." (PRESET) buttons 2 times, setting the Preset Menu to "MANUAL SEARCH".	Manual Search condition.
		Press the "MAIN MENU" and "Position" buttons, until the Preset Menu to "MANUAL SEARCH".	
3.		Press the Volume Up " + " or Down " – " button briefly.	The best tuning position is automatically memorized.
		Press the Position Left or Right button briefly.	
4.		Press the "PRE" (PRESET) button 4 times.	This returns the set to the normal viewing condition.
	MAIN MENU	Press the "MAIN MENU" button twice.	
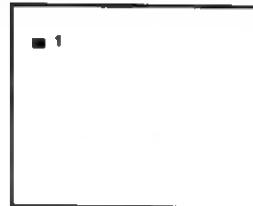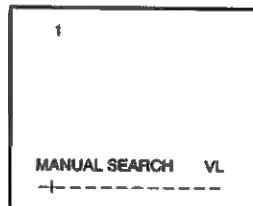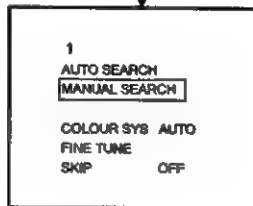
10
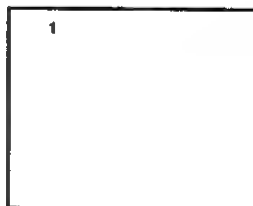
Programme Number Skip

OR
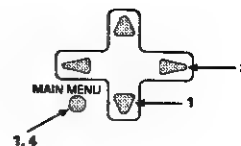
1. PRE.	Press the " PRE." (PRESET) buttons 5 times, setting the Preset Menu to "SKIP".	Channel Skip condition.

```
1
AUTO SEARCH
MANUAL SEARCH

COLOUR SYS   AUTO
FINE TUNE
SKIP          OFF
```

Press the "MAIN MENU" and "Position" buttons, until "SKIP" is selected.
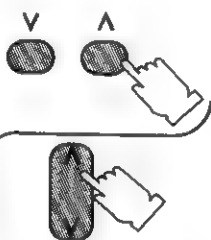
2. Select a Programme Number you want to skip, by pushing the Channel number Up or Down buttons.

```
2
AUTO SEARCH
MANUAL SEARCH

COLOUR SYS   AUTO
FINE TUNE
SKIP          OFF
```
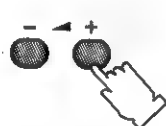
3. Press the Volume Up " + " or Down " – " button.

The displayed "OFF" condition changes to "ON".

```
2
AUTO SEARCH
MANUAL SEARCH

COLOUR SYS   AUTO
FINE TUNE
SKIP          ON
```

Press the Position Left or Right button.

4. Press the "PRE" button once.

This returns the set to the normal viewing condition.

Press the "MAIN MENU" button twice.

How to Cancel the Skip Function.
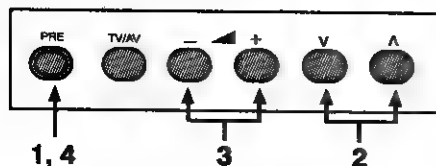
OR
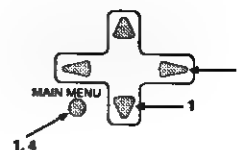
1, 4   **3**   **2**

1.   PRE.

Press the " PRE." (PRESET) buttons 5 times, setting the Preset Menu to "SKIP".

Channel Skip condition.

```
1
AUTO SEARCH
MANUAL SEARCH

COLOUR SYS  AUTO
FINE TUNE
SKIP        OFF
```

MAIN MENU

Press the "MAIN MENU" and "Position" buttons, until the Preset Menu to "SKIP".

2.   V   A
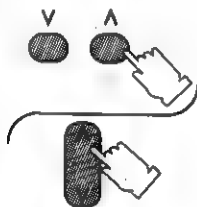
Select the skipped Programme Number, by pressing the Channel Number Up or Down buttons.

```
2
AUTO SEARCH
MANUAL SEARCH

COLOUR SYS  AUTO
FINE TUNE
SKIP        ON
```

3.   – ◀ +
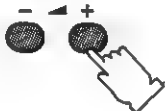
Press the Volume Up " + " or Down " – " button.

The displayed "ON" condition changes to "OFF".

MAIN MENU

Press the Position Left or Right button.

Repeat step 2 and 3, if you wish to cancel the Skip function on any other programme number.

```
2
AUTO SEARCH
MANUAL SEARCH

COLOUR SYS  AUTO
FINE TUNE
SKIP        OFF
```

4.   PRE.

After the Skip Cancel operation is completed, press the " PRE " button once.

This returns the set to the normal viewing condition.

MAIN MENU

After the Skip Cancel Operation is completed, press the " MAIN MENU " button twice.

Colour System Selection

Use this function if a clear picture with weak colour is obtained when a Broadcast or AV signal is received.

OR

---

1. PRE.
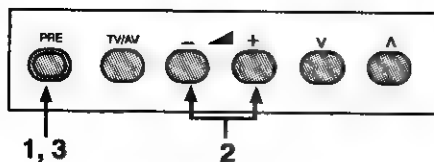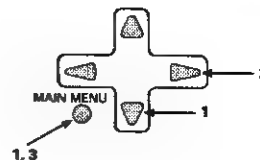
Press the " PRE." (PRESET) button, until "COLOUR SYS" is selected.

Colour System condition.

```
1
AUTO SEARCH
MANUAL SEARCH

COLOUR SYS  AUTO
FINE TUNE
SKIP        OFF
```

Press the "MAIN MENU" and "Position" buttons, until "COLOUR SYS" is selected.

---

2. − ◄ +
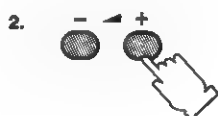
Press the Volume Up " + " or Down button, " − " repeatedly until the optimum image is produced.

```
0
AUTO SEARCH
MANUAL SEARCH

COLOUR SYS  AUTO
FINE TUNE
SKIP        OFF
```

The Colour system will change as shown:

$$AUTO \longleftrightarrow PAL$$
$$\updownarrow \qquad\qquad \updownarrow$$
$$NTSC\ 4.43 \longleftrightarrow SECAM$$

Press the Position Left or Right button repeatedly until the optimum image is obtained.

---

3. PRE.

Press the "PRE" (PRESET) button 3 times.

This returns the set to the normal viewing condition.

This selected Colour System is automatically memorized.

MAIN MENU

Press the "MAIN MENU" button twice.

13

Picture Menu Operation

Method

MAIN MENU

SOUND → PICTURE

MAIN MENU

DYNAMIC
- 32 COLOUR
- 32 NTSC-TINT
- 32 BRIGHT
- 63 CONTRAST
- 32 SHARPNESS
- STD COLOUR TEMP
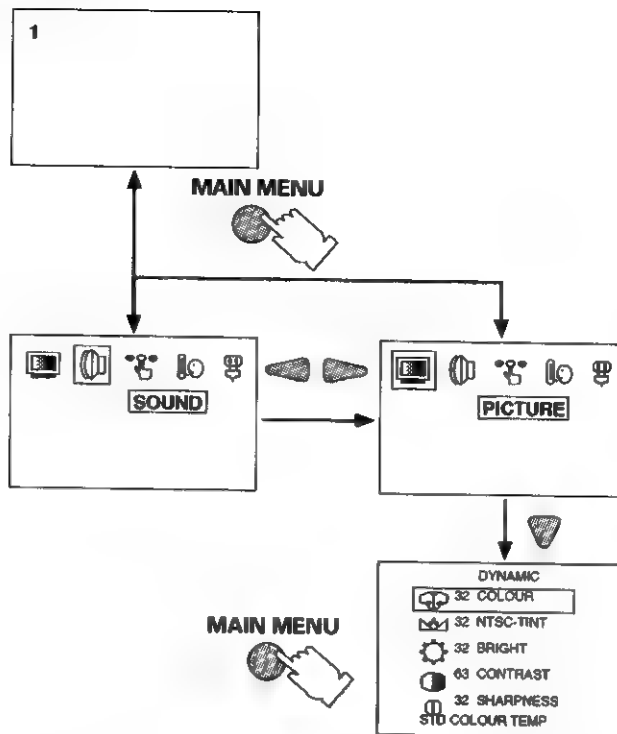
Picture Menu

Push	Item	Effect	Indicator
▽ △ Select	COLOUR	◁ ▷ Less More	32 COLOUR
▽ △ Select	NTSC-TINT	◁ ▷ Greenish Reddish	32 NTSC-TINT
▽ △ Select	BRIGHT	◁ ▷ Darker Brighter	32 BRIGHT
▽ △ Select	CONTRAST	◁ ▷ Less More	63 CONTRAST
▽ △ Select	SHARPNESS	◁ ▷ Less More	32 SHARPNESS
▽ △ Select	COLOUR TEMP	◁ ▷ STD ◀▶ WARM	COLOUR TEMP

Helpful Hint

1. By pushing the Normal "N" button on the Remote control while the Picture menu is displayed, the setting of the selected function will be return to factory setting level.

FEATURES Menu Operation

Method
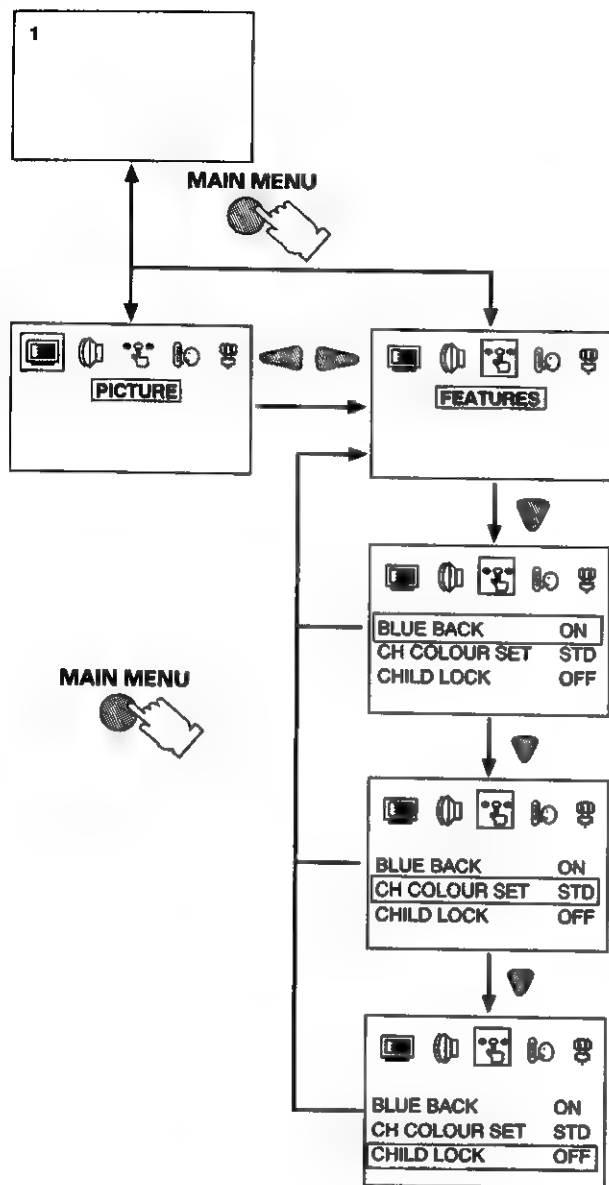
BLUE BACK Mode

When no picture signal is received, or the signal is weak, the screen reverts to a blue background colour and the sound is muted.
Disable this features to continue watching very weak signals.
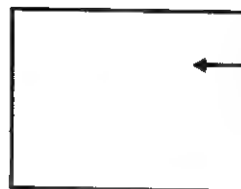
Blue background colour if no input picture signal or input signal is weak.

Note :

If BLUE BACK Mode is set on while a VCR signal is being viewed, selecting CUE or REVIEW may cause the screen to revert to the blue background colour. Disable this feature to view correctly.

CH (Channel) COLOUR SET mode.

Colour density varying between broadcast channels can be adjusted to three levels for each reception channel as follows:

STD ←→ HIGH ←→ LOW

CHILD LOCK mode.

To child lock any channel, press the position left or right button.
1) When channel is "LOCK", sound is muted and screen becomes blue colour.
2) If any of the channels is CHILD LOCK, then preset key at any panel will not work. If preset key (Panel) is pressed, message " CHILD LOCK ON " will appear.
3) Main power ON in child locked channel will display "CHILD LOCK ON" on screen to remind user that the Child lock is On and is in Child locked channel.
4) Each channel has its own memory for channels to be child locked.

MAIN MENU

MAIN MENU

BLUE BACK	ON
CH COLOUR SET	STD
CHILD LOCK	OFF

BLUE BACK	ON
CH COLOUR SET	STD
CHILD LOCK	OFF

BLUE BACK	ON
CH COLOUR SET	STD
CHILD LOCK	OFF

Language Menu Operation

Method

1

MAIN MENU

PICTURE

LANGUAGE
ENGLISH
中文
РУССКИЙ
العربية

ENGLISH
中文
РУССКИЙ
العربية
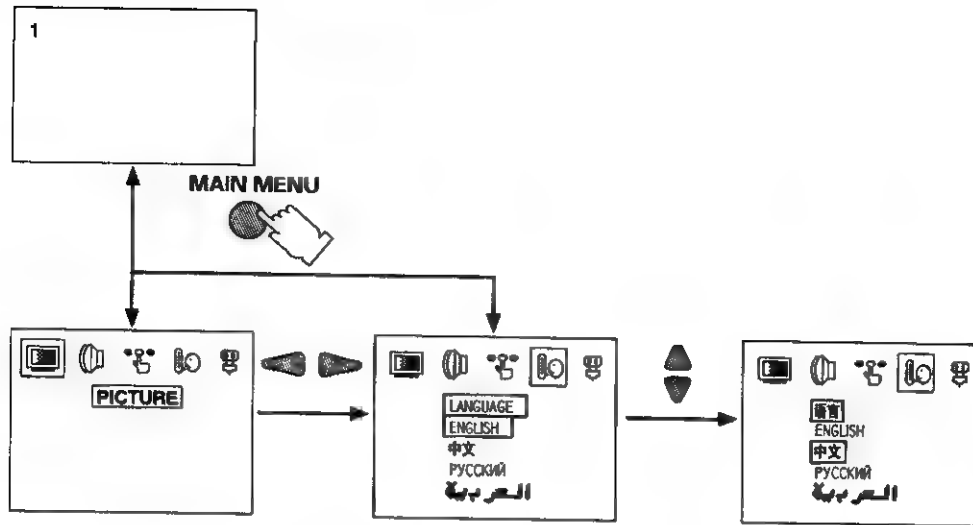
Press the "Position Up or Down" button to select desire language.

Sound Menu Operation

Method

1

MAIN MENU

PICTURE

SOUND

MAIN MENU

32 TONE
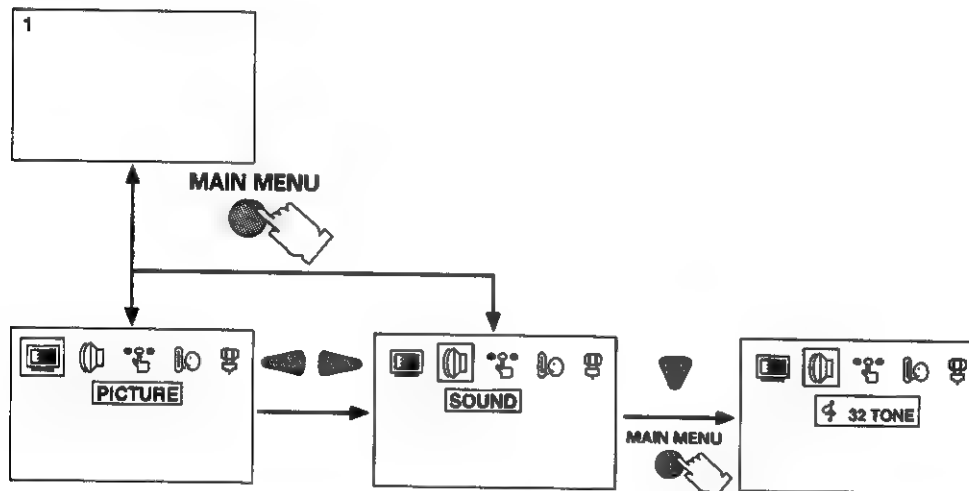
Sound Menu

Push	Item	Effect	Indicator
▽ △ Select	TONE	◁ ▷ Less More	22 TONE

Fastext

● Teletext features may vary depending on the Broadcasting companies and is only available if the channel selected is transmitting teletext.
● When in the teletext mode, the volume may still be altered to the desired listening level.

What is Fastext

In FASTEXT mode, four different coloured subjects are situated at the bottom of the display. To access more information about one of these subjects, push the appropriately coloured button. This facility enables fast access to information of the subjects shown.

What are the advantages

● Page selection at the touch of a Coloured-coded button.
● Easy to use step by step selected of the topical subject.
● Reduction of waiting time.
● Page status line at the bottom of screen so you always know which button will take you to the desired information.

Teletext Operation
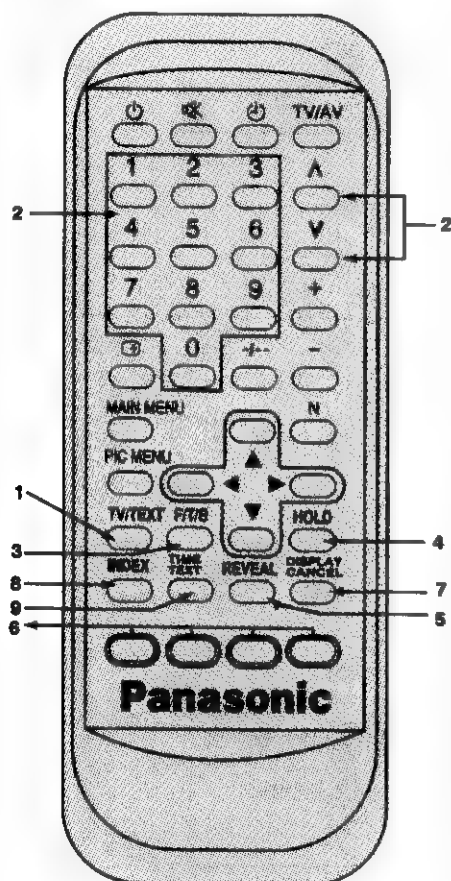
1. TV/TEXT

TV/Teletext mode
By pushing the TV/TEXT button, to change the TV/Teletext mode as follows:

(TV) ⟶ (TEXT)

2.

Page Selection
Pages can be selected in two ways:
a) Push the Up/Down Buttons to increase or decrease the page number by one.
b) By entering the page number, using 0 ~ 9 on the remote control.

3. F/T/B

Full/Top/Button
Push to expand the Top of the page.
Push again to expand the Bottom half.
Push again to return to normal (Full) size.

4. HOLD

Hold
Push to hold the current page.
Push again to cancel the hold.

5. REVEAL

Reveal
Push to reveal hidden words.
e.g. quiz page answer.
Push again to hide.

6.

Red Green Yellow Blue
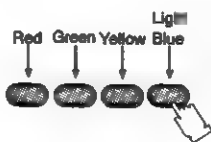
Colour-coded buttons
In Fastext mode these correspond to the differently coloured subjects.
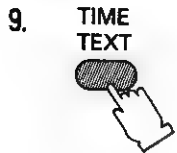
7. DISPLAY CANCEL

Display Cancel
Push the "DISPLAY CANCEL" button to view the normal TV programme.
When the desired sub-page is received, the "TEXT" message appears at the top left of the screen.
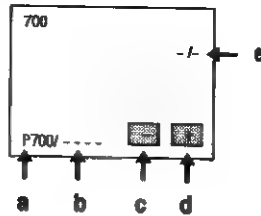
17

8. INDEX

Index
Push INDEX to return to the main index page.

9. TIME TEXT

TIME TEXT
The Required Teletext page must be selected. When the "TIME TEXT" button is pressed, the on-screen will be changed as follows:

```
700
                    -/-  ←  e

P700/ ----  [ ] [ ]
       ↑   ↑   ↑   ↑
       a   b   c   d
```

a - Selected Page Number
b - Selected Sub - page Number
c - Sub - page Number Down
d - Sub - page Number Up
e - Sub - page Number

If the selected page number contain sub-page number, the required sub - page number can be select by:
1. Press the Sub - page Number Up (green colour button)
2. Press the Sub - page Number Down (red colour button)
3. Press the Direct Programme Number Buttons, or
4. Programme Number Up or Down Buttons

The Sub - page 2 to sub - page 3 by pressing the Direct Programme Number buttons.

e.g. To change sub - page 2 to sub - page 3 by pressing the Direct Programme Number buttons.

```
700                        700
          2/3      →                3/3

P700/0002 [ ][ ]           P700/0003 [ ][ ]
```
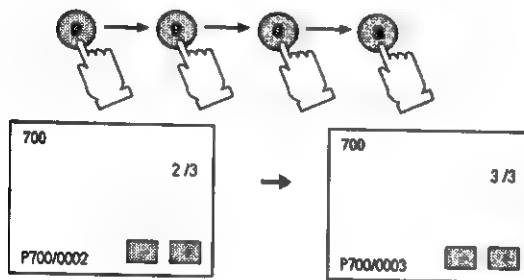
e.g. To change sub - page 2 to sub - page 1 by pressing the Sub - page Number Down Button (Red button).

```
700                        700
          2/3      →                1/3

P700/0002 [ ][ ]           P700/0001 [ ][ ]
```
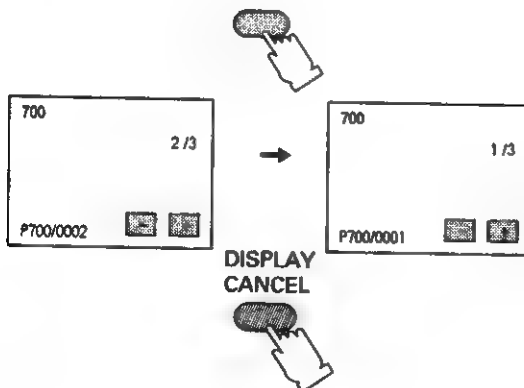
DISPLAY CANCEL

Press DISPLAY CANCEL to view a normal TV programme.

Antenna Connection

To obtain the best quality picture and sound, plug the connectors (300 Ohm Ribbon or 75 Ohm Coaxial Cable) to the antenna terminal on the rear of TV set.

(Rear of TV)

300 Ohm
Ribbon

75 Ohm
Coaxial Cable
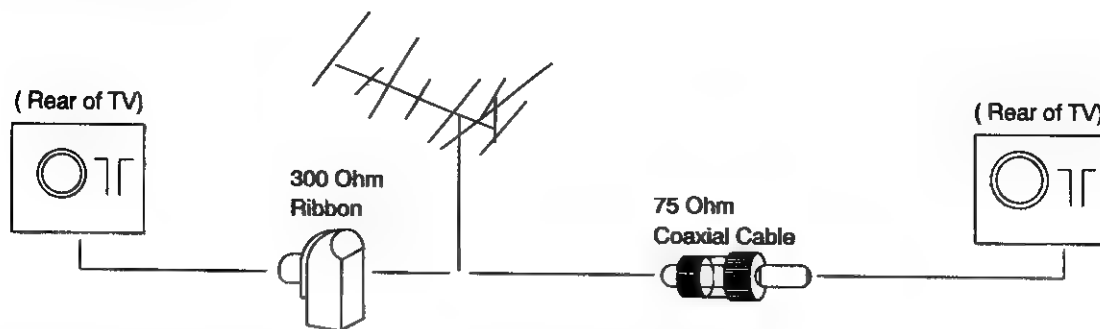
(Rear of TV)

Connections (Audio Input and Video Input)
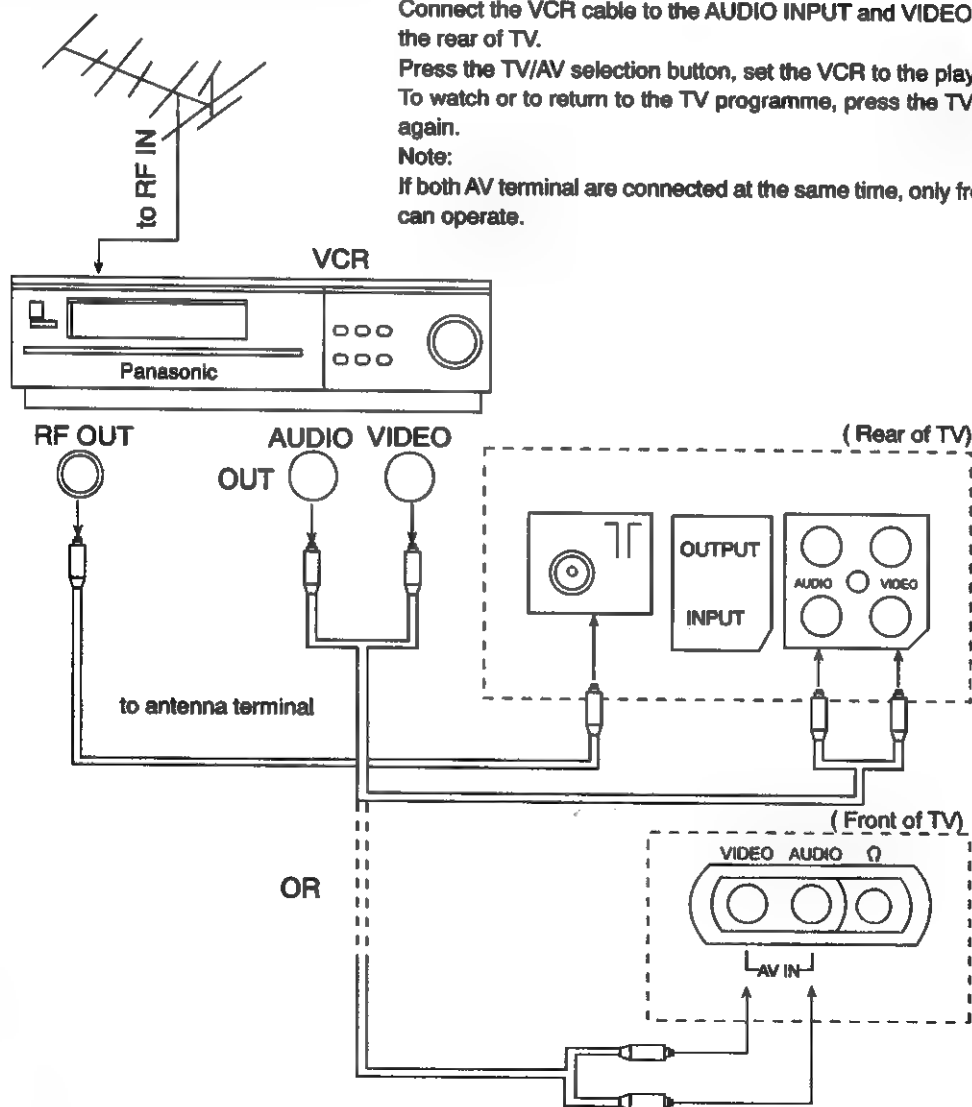
To watch the VCR picture :

Connect the VCR cable to the AUDIO INPUT and VIDEO INPUT terminals at the rear of TV.

Press the TV/AV selection button, set the VCR to the playback mode.

To watch or to return to the TV programme, press the TV/AV selection button again.
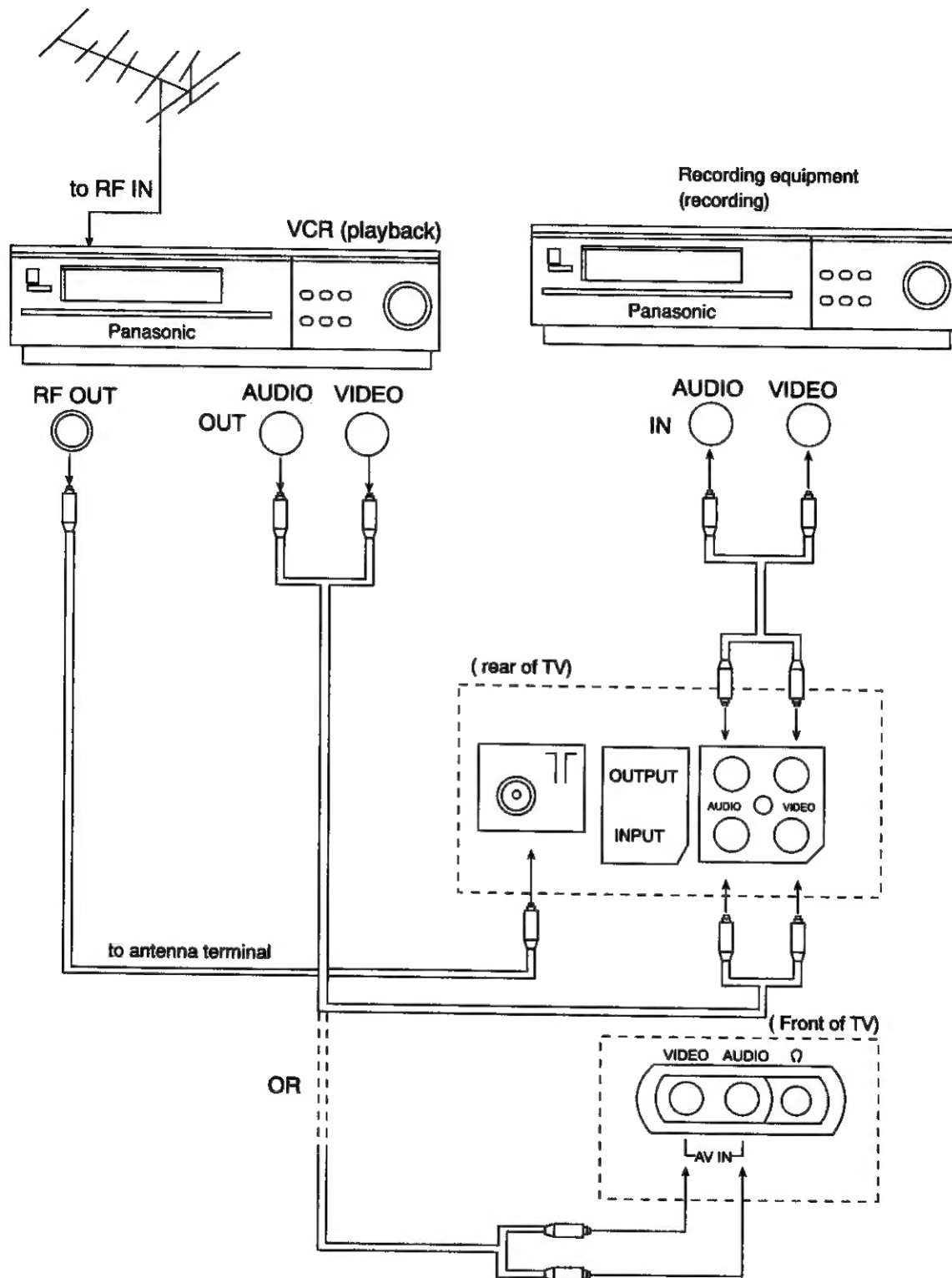
Note:

If both AV terminal are connected at the same time, only front AV input terminal can operate.

to RF IN

VCR

Panasonic

RF OUT   AUDIO VIDEO   (Rear of TV)
                    OUT

                                                    OUTPUT

                                                    INPUT   AUDIO   VIDEO

to antenna terminal

OR

(Front of TV)

VIDEO AUDIO Ω

AV IN

19

Recording

Follow the connection shown below when you want to copy a programme from another tape (VCR).

Troubleshooting

Before calling for service, determine the symptoms and make a few simple checks as shown below.

Symptoms		Checks
Picture	**Sound**	
Snowy Picture	Noisy Sound	Aerial Location, direction Connection
Multiple Image	Normal Sound	Aerial Location, direction Connection
Interference	Noisy Sound	Electrical Appliances Cars / Motorcycles Fluorescent Lamps
Normal Picture	No Sound	Volume (Check whether the mute function has been activated on the Remote Control.)
No Picture	No Sound	Not plugged into AC outlet Not switched on Contrast and Brightness / Volume Setting (Check by pushing the Power Switch or Stand-by Button on the Remote Control.)
No Colour	Normal Sound	Colour Control
Scrambled	Weak Sound	Re-tune Channels
Colour Patches	Normal Sound	Magnetic interference from unshielded equipment. Receiver moved while "ON"
No Colour Rolling Picture H-Line	Noisy Sound	System Button

Specifications

Power Source : AC SINGLE 230V, 50Hz (TC-14S15M/TX-14ST15M)

                        AC SINGLE 240V, 50Hz (TC-14S15A)

Power Consumption : 72 W

Tuning System : Voltage synthesizer

                  Auto search tuning 100 position

Picture Tube : 37 cm, measured diagonally, 90° deflection

Audio Output : 3 W

Remote Control Transmitter : EUR 501380 (TC-14S15M/TC-14S15A)

                                   EUR 644666 (TX-14ST15M)

Battery : R6 (AA) x 2

Dimension (W x D x H) : 385 x 374 x 358 mm

Weight (Net): 9.5 Kg

Receiving Systems : 4 SYSTEMS

	SYSTEMS	FUNCTION
1.	PAL B,G	Reception of broadcast transmissions and playback from video cassette tape recorders.
2. 3.	NTSC 4.43 NTSC 3.58	Playback from special VCR only.
4.	PAL 60Hz	Playback from special Disc player and VCR only.

Receiving Channels :

VHF BAND	UHF BAND	CATV
2 – 12 PAL B 0 – 12 PAL B (AUS)	21 – 69 PAL G 28 – 69 PAL B (AUS)	S1 – S41 (HYPER)

Note :

Design and Specifications are subject to change without notice.

Customer's Record :

The serial number of this product can be found on its rear cover. You should note this serial number in the space provided below and retain this book plus your purchase receipt as a permanent record of your purchase to aid in identification in the event of theft or loss, and for warranty Service purposes.

Model Number : _____   Serial Number : _____

Matsushita Electric Industrial Co., Ltd
Central P.O. Box 288, Osaka 530-91, Japan